TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-22-01**	**Date: 25-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	22-04-17	
Sample ID No	:	2017-04-22-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	22-04-17	

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	501
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.59	4.79
4	Average percentage	%	4.7	

Prepared By:
Harshitha

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Lab ID : CP-RW-2017-04-22-01 Date: 25-04-17

Sample ID No : 2017-04-22-01/01

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	5	5	1.05	99.0	90-100
19	28	33	6.90	93.1	71-95
13.2	72	105	21.97	78.0	56-80
4.75	186	291	60.88	39.1	38-54
2.36	52	343	71.76	28.2	28-42
0.3	83	426	89.12	10.9	7-21
0.075	43	469	98.12	1.9	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	4	4	0.84	99.2	90-100
19	58	62	13.00	87.0	71-95
13.2	99	161	33.75	66.2	56-80
4.75	102	263	55.14	44.9	38-54
2.36	76	339	71.07	28.9	28-42
0.3	82	421	88.26	11.7	7-21
0.075	32	453	94.97	5.0	2-8

Note:-
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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-17-01** **Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Project Name	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Mecadam)
Date of test	:	17-04-17

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	315.5	315.8
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	67.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	248.9	247.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.5
5	Aggregate impct value	(B/A)*100	20.89	21.37
6	Aggregate impct value (Mean of two tests)		21.13	

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID : CP-RW-2017-04-17-01 **Date: 20-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Project Name : Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer Reference : BBMP/EE(YNK.D)/W.O/152/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-17

Sample ID No : 2017-04-17-01/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 17-04-17

SLNo	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2230	2205	
2	Weight of Empty Basket suspended in water	A2	grams	791	728	
3	Weight of Aggregates in water	A=A1-A2	grams	1439	1477	
4	Weight of Saturated Surface Dry aggregate	B	grams	2359	2359	
5	Weight of oven dried aggregate	C	grams	2353	2353	
6	Specific gravity	C/(B-A)		2.56	2.67	2.61
7	Apparent Specific gravity	C/(C-A)		2.57	2.69	2.63
8	Water absorption	100*(B-C) /C	Percent	0.25	0.25	0.25

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID	:	**CP-RW-2017-04-17-01** **Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)
Date of test	:	18-04-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	13.3%	
Combined Flakiness and Elongation Index for BC	24.1%	

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-17-01** **Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	17-04-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	99.0	1.0		

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-17-01** **Date: 20-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-17
Sample ID No	:	2017-04-17-01/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	17-04-17
Oven Dry Weight(gm)	:	5000

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	103	103	2.1	97.9	90-100
9.5	754	857	17.1	82.9	70-88
4.75	823	1680	33.6	66.4	53-71
2.36	614	2294	45.9	54.1	42-58
1.18	533	2827	56.5	43.5	34-48
0.6	488	3315	66.3	33.7	26-38
0.3	610	3925	78.5	21.5	18-28
0.15	358	4283	85.7	14.3	12-20
0.075	322	4605	92.1	7.9	4-10
PAN	395	5000	100	0.0	0

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2017-04-17-01** **Date: 20-04-17**
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample : Hot Mix Plant, Bangalore
Sample Condition : Satisfactory
Date of Receipt : 17-04-17
Sample ID No : 2017-04-17-01/01
Type of Mix : BC (Bituminous Concrete)
Date of test : 17-04-17

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.81	11.54	10KN(min)
2	Marshal flow at 60°C, mm	3.16	3.55	2-4
3	Percent air Voids	4.65	4.76	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.99	14.38	13-15
5	Percent Voids filled with Bitumen(VFB %)	70.18	71.88	65-75
6	Density, g/cc	2.34	2.35	–

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-24-01** **Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	24-04-17
Sample ID No	:	2017-04-24-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	24-02-17

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	500
2	Weight of the sample After extraction	B	473	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.59	5.60
4	Average percentage	%	5.6	

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Lab ID : CP-RW-2017-04-24-01 Date: 26-04-17

Sample ID : 2017-04-24-01/01

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	77	81	17.1	82.9	70-88
4.75	109	190	40.2	59.8	53-71
2.36	62	252	53.3	46.7	42-58
1.18	43	295	62.4	37.6	34-48
0.6	51	346	73.2	26.8	26-38
0.3	27	373	78.9	21.1	18-28
0.15	27	400	84.6	15.4	12-20
0.075	28	428	90.5	9.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	114	124	26.3	73.7	70-88
4.75	92	216	45.8	54.2	53-71
2.36	74	290	61.4	38.6	42-58
1.18	29	319	67.6	32.4	34-48
0.6	22	341	72.2	27.8	26-38
0.3	21	362	76.7	23.3	18-28
0.15	27	389	82.4	17.6	12-20
0.075	55	444	94.1	5.9	4-10

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2017-04-24-01**	**Date: 26-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting and improvements to roads at Surabhi layout 2nd main and cross road in ward No.01	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/152/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	24-04-17	
Sample ID No	:	2017-04-24-01/02	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	24-02-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	501
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.79	5.99
4	Average percentage	%	5.9	

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Lab ID : CP-RW-2017-04-24-01 **Date: 26-04-17**

Sample ID : 2017-04-24-01/02

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	56	60	12.7	87.3	70-88
4.75	89	149	31.6	68.4	53-71
2.36	84	233	49.4	50.6	42-58
1.18	23	256	54.2	45.8	34-48
0.6	51	307	65.0	35.0	26-38
0.3	50	357	75.6	24.4	18-28
0.15	40	397	84.1	15.9	12-20
0.075	43	440	93.2	6.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	74	91	19.3	80.7	70-88
4.75	115	206	43.7	56.3	53-71
2.36	46	252	53.5	46.5	42-58
1.18	38	290	61.6	38.4	34-48
0.6	21	311	66.0	34.0	26-38
0.3	45	356	75.6	24.4	18-28
0.15	54	410	87.0	13.0	12-20
0.075	31	441	93.6	6.4	4-10

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